

Appl. No. 09/686,502  
Amdt. Dated April 23, 2004  
Reply to Office action of March 2, 2004  
Attorney Docket No. P13482-US2  
EUS/JIP/04-3091

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

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1. (Original) A network service entity for a base station system, comprising:

at least one point-to-point functional unit;

a signalling functional unit; and

a message distributor unit, said message distributor unit coupled to said at least one point-to-point functional unit, said signalling function unit, and a connection interface, said message distributor unit operable to distribute packet information to or from said connection interface.

2. (Original) The network service entity of Claim 1, further comprising:  
a point-to-multipoint functional entity coupled to said message distributor unit.

3. (Original) The network service entity of Claim 1, wherein the base station system comprises an IP-based base station system.

4. (Original) The network service entity of Claim 1, wherein said signalling functional unit comprises a BVC signalling functional unit.

5. (Original) The network service entity of Claim 1, wherein said network service entity comprises a PCU.

6. (Original) The network service entity of Claim 1, wherein said packet information comprises GPRS data.

7. (Original) The network service entity of Claim 1, wherein said packet information comprises EDGE GPRS data.

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8. (Original) The network service entity of Claim 1, wherein said connection interface comprises a Gb interface.

9. (Original) The network service entity of Claim 1, wherein said at least one point-to-point functional unit includes an RLC/MAC control unit.

10. (Original) The network service entity of Claim 1, wherein said at least one point-to-point functional unit is coupled to a radio air interface.

11. (Original) The network service entity of Claim 1, wherein said message distributor unit is operable to route BVCI-based BSSGP packets.

12. (Original) The network service entity of claim 1, wherein said message distributor unit is operable to build a BVCI-to-IP address/port relationship table using a plug 'n play application.

~~13-36. (Cancelled)~~

37. (Original) A radio network server for a base station system, comprising:

a management functional unit;

a signalling termination functional unit coupled to said management functional unit; and

a pager unit coupled to said signalling termination functional unit.

38. (Original) The radio network server of Claim 37, wherein said management functional unit comprises a BVC management functional unit.

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39. (Original) The radio network server of Claim 37, wherein said signalling termination functional unit comprises a BSSGP signalling termination functional unit.

40. (Original) A gateway for a base station system, comprising:  
a message distributor unit coupled to a connection interface and a point-to-multipoint functional unit, said message distributor unit operable to distribute packet information to a plurality of network units; and  
a network service management functional unit.

41. (Original) A method for controlling network service functions in a base station system, comprising the steps of:

controlling a connection for conveying data between at least two endpoints in said base station system;

controlling a connection for conveying said data between at least a third endpoint and said at least two endpoints in said base station system;

controlling at least one connection for conveying signalling information in said base station system; and

distributing said data to or from a connection interface.

42. (Original) The method of Claim 41, wherein the base station system comprises an IP-based base station system.

43. (Original) The method of Claim 41, wherein said signalling information comprises BVC signalling information.

44. (Original) The method of Claim 41, wherein said network service functions reside in a PCU.

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45. (Original) The method of Claim 41, wherein said data comprises GPRS packet data.

46. (Original) The method of Claim 41, wherein said data comprises EDGE GPRS data.

47. (Original) The method of Claim 41, wherein said connection interface comprises a Gb interface.

48. (Original) The method of Claim 41, wherein the step of distributing said data to or from a connection interface comprises routing BVCI-based BSSGP packets to or from a Gb interface.

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